

# Sequence Listing 2.txt

## Sequence Listing

<110> SJ BIOMED INC.

<120> Anti-obese immunogenic hybrid polypeptides and anti-obese vaccine composition comprising the same

<160> 9

<170> KopatentIn 1.71

<210> 1

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> mimetic peptide for apolipoprotein B-100 epitope

<400> 1

Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe  
1 5 10 15

<210> 2

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> mimetic peptide for apolipoprotein B-100 epitope

<400> 2

Arg Phe Arg Gly Leu Ile Ser Leu Ser Gln Val Tyr Leu Asp Pro  
1 5 10 15

<210> 3

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> mimetic peptide for apolipoprotein B-100 epitope

<400> 3

Ser Val Cys Gly Cys Pro Val Gly His His Asp Val Val Gly Leu  
1 5 10 15

<210> 4

<211> 204

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence for terameric mimetic peptide

# Sequence Listing 2.txt

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<220>
<221> CDS
<222> (1)..(204)

<400> 4
gtc gac cgt aat gtt cct cct atc ttc aat gat gtt tat tgg att gca      48
Val Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala
 1          5          10          15

ttc ctc gac cgt aat gtt cct cct atc ttc aat gat gtt tat tgg att      96
Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile
          20          25          30

gca ttc ctc gac cgt aat gtt cct cct atc ttc aat gat gtt tat tgg      144
Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp
          35          40          45

att gca ttc ctc gac cgt aat gtt cct cct atc ttc aat gat gtt tat      192
Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr
          50          55          60

tgg att gca ttc
Trp Ile Ala Phe
65

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<210> 5
<211> 68

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<212> PRT
<213> Artificial Sequence
<400> 5
Val Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala
 1          5          10          15

Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile
          20          25          30

Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp
          35          40          45

Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr
          50          55          60

Trp Ile Ala Phe
65

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<210> 6
<211> 180
<212> DNA
<213> Hepatitis B virus

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<220>
<221> CDS
<222> (1)..(177)
<223> Hepatitis B virus pres2

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<220>
<221> terminator
<222> (178)..(180)

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# Sequence Listing 2.txt

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<400>      6
atg cag tgg aac tcc acc aca ttc cac caa gct ctg cta gat ccc aga      48
Met Gln Trp Asn Ser Thr Thr Phe His Gln Ala Leu Leu Asp Pro Arg
   1              5              10              15

gtg agg ggc cta tat ttt cct gct ggt ggc tcc agt tcc gga aca gta      96
Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser Ser Gly Thr Val
              20              25              30

aac cct gtt ccg act act gcc tca ccc ata tcg tca atc ttc tcg agg      144
Asn Pro Val Pro Thr Thr Ala Ser Pro Ile Ser Ser Ile Phe Ser Arg
              35              40              45

act ggg gac cct gca ccg aac ctc gag cgg tca          taa          180
Thr Gly Asp Pro Ala Pro Asn Leu Glu Arg Ser
   50              55

```

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<210>      7
<211>      59
<212>      PRT
<213>      Hepatitis B virus

```

```

<400>      7
Met Gln Trp Asn Ser Thr Thr Phe His Gln Ala Leu Leu Asp Pro Arg

   1              5              10              15
Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser Ser Gly Thr Val
              20              25              30

Asn Pro Val Pro Thr Thr Ala Ser Pro Ile Ser Ser Ile Phe Ser Arg
              35              40              45

Thr Gly Asp Pro Ala Pro Asn Leu Glu Arg Ser
   50              55

```

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<210>      8
<211>      444
<212>      DNA
<213>      Artificial Sequence

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<220>
<223>      DNA sequence for hybride polypeptide

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<220>
<221>      CDS
<222>      (1)..(441)

<220>
<221>      terminator
<222>      (441)..(444)

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<400>      8
atg aga gga tcg cat cac cat cac cat cac gga tcc gat gat gat gac      48
Met Arg Gly Ser His His His His His His Gly Ser Asp Asp Asp Asp
   1              5              10              15

aag atc gtc gac cgt aat gtt cct cct atc ttc aat gat gtt tat tgg      96

```

# Sequence Listing 2.txt

Lys	Ile	Val	Asp	Arg	Asn	Val	Pro	Pro	Ile	Phe	Asn	Asp	Val	Tyr	Trp	
			20					25					30			
att	gca	ttc	ctc	gac	cgt	aat	gtt	cct	cct	atc	ttc	aat	gat	gtt	tat	144
Ile	Ala	Phe	Leu	Asp	Arg	Asn	Val	Pro	Pro	Ile	Phe	Asn	Asp	Val	Tyr	
		35					40					45				
tgg	att	gca	ttc	ctc	gac	cgt	aat	gtt	cct	cct	atc	ttc	aat	gat	gtt	192
Trp	Ile	Ala	Phe	Leu	Asp	Arg	Asn	Val	Pro	Pro	Ile	Phe	Asn	Asp	Val	
		50				55					60					
tat	tgg	att	gca	ttc	ctc	gac	cgt	aat	gtt	cct	cct	atc	ttc	aat	gat	240
Tyr	Trp	Ile	Ala	Phe	Leu	Asp	Arg	Asn	Val	Pro	Pro	Ile	Phe	Asn	Asp	
		65			70					75					80	
gtt	tat	tgg	att	gca	ttc	ctc	gac	atg	cag	tgg	aac	tcc	acc	aca	ttc	288
Val	Tyr	Trp	Ile	Ala	Phe	Leu	Asp	Met	Gln	Trp	Asn	Ser	Thr	Thr	Phe	
				85					90					95		
cac	caa	gct	ctg	cta	gat	ccc	aga	gtg	agg	ggc	cta	tat	ttt	cct	gct	336
His	Gln	Ala	Leu	Leu	Asp	Pro	Arg	Val	Arg	Gly	Leu	Tyr	Phe	Pro	Ala	
			100					105					110			
ggt	ggc	tcc	agt	tcc	gga	aca	gta	aac	cct	gtt	ccg	act	act	gcc	tca	384
Gly	Gly	Ser	Ser	Ser	Gly	Thr	Val	Asn	Pro	Val	Pro	Thr	Thr	Ala	Ser	
			115				120					125				
ccc	ata	tcg	tca	atc	ttc	tcg	agg	act	ggg	gac	cct	gca	ccg	aac	ctc	432
Pro	Ile	Ser	Ser	Ile	Phe	Ser	Arg	Thr	Gly	Asp	Pro	Ala	Pro	Asn	Leu	
		130				135					140					
gag	cgg	tca	taa													444
Glu	Arg	Ser														
145																

<210> 9  
 <211> 147  
 <212> PRT  
 <213> Artificial Sequence

<400> 9  
 Met Arg Gly Ser His His His His His His Gly Ser Asp Asp Asp Asp  
 1 5 10 15  
 Lys Ile Val Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp  
 20 25 30  
 Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr  
 35 40 45  
 Trp Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp Val  
 50 55 60  
 Tyr Trp Ile Ala Phe Leu Asp Arg Asn Val Pro Pro Ile Phe Asn Asp  
 65 70 75 80  
 Val Tyr Trp Ile Ala Phe Leu Asp Met Gln Trp Asn Ser Thr Thr Phe  
 85 90 95  
 His Gln Ala Leu Leu Asp Pro Arg Val Arg Gly Leu Tyr Phe Pro Ala

Sequence Listing 2.txt

100  
 Gly Gly Ser Ser Ser Gly Thr Val Asn Pro Val Pro Thr Thr Ala Ser  
 115 120 125  
 Pro Ile Ser Ser Ile Phe Ser Arg Thr Gly Asp Pro Ala Pro Asn Leu  
 130 135 140  
 Glu Arg Ser  
 145

<210> 10  
 <211> 432  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> DNA sequence for PTB14

<220>  
 <221> CDS  
 <222> (1)..(429)

<400> 10  
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 1 5 10 15  
 aag atc gtc gac atg cag tgg aac tcc acc aca ttc cac caa gct ctg 96  
 Lys Ile Val Asp Met Gln Trp Asn Ser Thr Thr Phe His Gln Ala Leu  
 20 25 30  
 cta gat ccc aga gtg agg ggc cta tat ttt cct gct ggt ggc tcc agt 144  
 Leu Asp Pro Arg Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser  
 35 40 45  
 tcc gga aca gta aac cct gtt ccg act act gcc tca ccc ata tcg tca 192  
 Ser Gly Thr Val Asn Pro Val Pro Thr Thr Ala Ser Pro Ile Ser Ser  
 50 55 60  
 atc ttc tcg aag act ggg gac cct gca ccg aac ctc gac cgt aat gtt 240  
 Ile Phe Ser Lys Thr Gly Asp Pro Ala Pro Asn Leu Asp Arg Asn Val  
 65 70 75 80  
 cct cct atc ttc aat gat gtt tat tgg att gca ttc ctc gac cgt aat 288  
 Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp Arg Asn  
 85 90 95  
 gtt cct cct atc ttc aat gat gtt tat tgg att gca ttc ctc gac cgt 336  
 Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp Arg  
 100 105 110  
 aat gtt cct cct atc ttc aat gat gtt tat tgg att gca ttc ctc gac 384  
 Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp  
 115 120 125  
 cgt aat gtt cct cct atc ttc aat gat gtt tat tgg att gca ttc t 430  
 Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe  
 130 135 140

# Sequence Listing 2.txt

aa

432

<210> 11  
<211> 143  
<212> PRT  
<213> Artificial Sequence

<400> 11  
Met Arg Gly Ser His His His His His His Gly Ser Asp Asp Asp Asp  
1 5 10 15  
Lys Ile Val Asp Met Gln Trp Asn Ser Thr Thr Phe His Gln Ala Leu  
20 25 30  
Leu Asp Pro Arg Val Arg Gly Leu Tyr Phe Pro Ala Gly Gly Ser Ser  
35 40 45  
Ser Gly Thr Val Asn Pro Val Pro Thr Thr Ala Ser Pro Ile Ser Ser  
50 55 60  
Ile Phe Ser Lys Thr Gly Asp Pro Ala Pro Asn Leu Asp Arg Asn Val  
65 70 75 80  
Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp Arg Asn  
85 90 95  
Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp Arg  
100 105 110  
Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe Leu Asp  
115 120 125  
Arg Asn Val Pro Pro Ile Phe Asn Asp Val Tyr Trp Ile Ala Phe  
130 135 140